

Title (en)
Wavelength tunable laser

Title (de)
Wellenlängenabstimmbarer Laser

Title (fr)
Laser à longueur d'onde accordable

Publication
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Application
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Abstract (en)
[origin: EP0805530A2] An object of the present invention is to provide a wavelength selectable laser oscillator in wavelength tunable laser by which high-speed tuning of wavelength can be achieved while utilizing continuous-wave laser beam as the excited laser beam. The wavelength selectable laser oscillator in wavelength tunable laser comprises a laser resonator composed of opposed mirrors each having a prescribed reflectivity on the outgoing side and a total reflection mirror which does not transmit light, but reflects the light; a wavelength tunable laser medium disposed in the laser resonator and capable of laser oscillation in a wavelength zone of a prescribed range; an acousto-optical crystal disposed in the laser oscillator and to which is inputted the outgoing light from the wavelength tunable laser medium; an acoustic wave inputting means mounted on the acousto-optical crystal and for inputting an acoustic wave to the acousto-optical crystal; and a continuous-wave laser for inputting excited laser beam into the laser resonator; the laser beam outputted from the mirrors on the outgoing side being utilized as the outgoing laser beam from the laser resonator.
<IMAGE>

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Citation (examination)
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